

## REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

TITLE OF INVENTION

**APPLICANT** 

Box No. I

Box No. II

Belgium

For reces of Office use only
International Application No.
International Filing Date
Name of receiving Office and "PCT International Application"
Traine of feetiving Office and Tell international repriestion

Applicant's or agent's file reference (if desired) (12 characters maximum) S2648-PCT Methods and apparatus for synchronization of training sequences This person is also inventor Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Telephone No. +31-20 57 53 001 Facsimile No. +31-20 57 53 004

STMICROELECTRONICS N.V.		+31-20 57 53 004
WTC Schiphol Airport Schiphol Boulevard 265		Teleprinter No.
1118 BH Schiphol Airport - Amsterdam The Netherlands		Applicant's registration No. with the Office
	State (that is, country) NL	of residence:
This person is applicant for the purposes of:  all designated States all designated States all designated States		he United States the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER	R) INVENTOR(S)	
Name and address: (Family name followed by given name; for a legal entity, fit The address must include postal code and name of country. The country of the ad Box is the applicant's State (that is, country) of residence if no State of residence is to VANDERPERREN, Yves  Vijf Bunderlaan 35  B-1150 Brussel  Relgium	ddress indicated in this	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)
Belgium		Applicant's registration No. with the Office
, , ,	State (that is, country) BE	of residence:
This person is applicant all designated for the purposes of:		the United States indicated in the States indicated in the Supplemental Box
X Further applicants and/or (further) inventors are indicated on a	continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATIVE; O	OR ADDRESS FOR	CORRESPONDENCE
The person identified below is hereby/has been appointed to act on b of the applicant(s) before the competent International Authorities as:		agent common representative
Name and address: (Family name followed by given name; for a legal entity, fi The address must include postal code and name of count	full official designation. try.)	Telephone No. +32-16-48 05 62
BIRD, William E.		Facsimile No.
Bird Goën & Co Klein Dalenstraat 42A		+32-16-48 05 28
B-3020 Winksele		Teleprinter No.

Form PCT/RO/101 (first sheet) (March 2001; reprint January 2003)

See Notes to the request form

Agent's registration No. with the Office

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Sheet	No.	_	2		

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)  If none of the following sub-boxes is used, this sheet should not be included in the request.							
Name and address: (Family name followed by given name; for a legal entity, ful The address must include postal code and name of country. The country of the address must include postal code and name of country. The country of the address is the applicant's State (that is, country) of residence if no State of residence is in DEHAENE, Wim Gemeentestraat 201  B-3010 Kessel-Lo  Belgium	tress indicated in this						
	Applicant's registration No. with the Office						
	ate (that is, country) of residence: E						
This person is applicant for the purposes of:  all designated all designated States the United States of	es except of America only the States indicated in the Supplemental Box						
Name and address: (Family name followed by given name; for a legal entity, ful The address must include postal code and name of country. The country of the ada Box is the applicant's State (that is, country) of residence if no State of residence is in	ress indicated in this						
State (that is, country) of nationality:	ate (that is, country) of residence:						
This person is applicant all designated for the purposes of:  all designated States the United States of	es except the United States the States indicated in the Supplemental Box						
Name and address: (Family name followed by given name; for a legal entity, full official designation.  The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the O							
State (that is, country) of nationality:	ate (that is, country) of residence:						
This person is applicant for the purposes of:  all designated State the United States of	es except the United States the States indicated in the Supplemental Box						
Name and address: (Family name followed by given name; for a legal entity, full The address must include postal code and name of country. The country of the ada Box is the applicant's State (that is, country) of residence if no State of residence is in	ress indicated in this						
State (that is, country) of nationality:	te (that is, country) of residence:						
This person is applicant for the purposes of:  all designated all designated States the United States of							
Further applicants and/or (further) inventors are indicated on another continuation sheet.							

Form PCT/RO/101 (continuation sheet) (March 2001; reprint January 2003)

See Notes to the request form



Mark the applicable check-boxes below; at least one must be marked.

The following designations are hereby made under Rule 4.9(a):

## Regional Patent

- EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- EP European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- A OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

Na	tion	al Patent (if other kind of protection	or	treat	ment desired, specify on dotted line):			
X	ΑE	United Arab Emirates	X	GM	Gambia	X	ΝZ	New Zealand
X	$\mathbf{AG}$	Antigua and Barbuda	X	HR	Croatia	X	OM	(Oman
X	$\mathbf{AL}$	Albania	X	HU	Hungary			Philippines
X	AM	Armenia	X	ID	Indonesia	X	$\mathbf{PL}$	Poland
X	ΑT	Austria	X	IL	Israel	X	PT	Portugal
X	ΑU	Australia	X	IN	India	-		Romania
		Azerbaijan			Iceland		RU	Russian Federation
		Bosnia and Herzegovina						
		Barbados			Kenya			
X	BG	Bulgaria	X	KG	Kyrgyzstan			
		Brazil				-		Sweden
		Belarus			of Korea			
		Belize						
-		Canada			Kazakhstan	X	SL	Sierra Leone
		& LI Switzerland and Liechtenstein						Tajikistan
-		China						Turkmenistan
		Colombia			Liberia			Tunisia
		Costa Rica						Turkey
		Cuba				X	TT	Trinidad and Tobago
_		Czech Republic			_			
		Germany						United Republic of Tanzania
-		Denmark	-					Ukraine
X	DM	Dominica	X	MD	Republic of Moldova			Uganda
		Algeria					US	United States of America
-		Ecuador			Madagascar			
		Estonia		MK	<del>-</del> -			Uzbekistan
X	ES	Spain			Macedonia			
X	. –	Finland			Mongolia			Viet Nam
X		United Kingdom			VMalawi			
X		Grenada			Mexico			
X		Georgia						
X	GH	Ghana	X	NO	Norway	X	ZW	Zimbabwe
CF	eck-l	boxes below reserved for designating	Stat	ec m	hich have become party to the PCT	after	· icen	sance of this sheet:
		boxes below reserved for designating			men have become party to the FC1			or uns sheet.
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Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)



If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No..." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in
- (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of Fax: +32-16-48 05 28 the parent title or filing of the parent application;
- if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
- If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

Continuation of Box No. IV:

BIRD, Ariane Bird Goën & Co Klein Dalenstraat 42A B-3020 Winksele Belgium

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HERTOGHE, Kris Bird Goën & Co Klein Dalenstraat 42A B-3020 Winksele

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Sheet	No	5	

Box No. VI PRIORITY	CLAIM							
The priority of the following	g earlier application(s) is hereb	oy claimed:						
Filing date	is:							
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office				
item (1) 21 October 2002 (21.10.02)	02079374.1		EP					
item (2) 10 February 2003 (10.02.03)	10/364,294	us						
item (3)								
item (4)								
item (5)								
Further priority claims	are indicated in the Suppleme	ntal Box.	<u> </u>	1				
if the earlier application was above as:  all items item	ested to prepare and transmit filed with the Office which for  (1) item (2) item (by the content of the world and the content of the World Trade Or	item (3) item	(4) item (5)	other, see Supplemental Box				
Box No. VII INTERNAT	TIONAL SEARCHING AUT	THORITY						
Choice of International Se international search, indicate ISA / EP	arching Authority (ISA) (if t e the Authority chosen; the two	wo or more International S -letter code may be used):	Searching Authorities are	competent to carry out the				
Request to use results of ea	arlier search; reference to t	hat search (if an earlier s	earch has been carried o	ut by or requested from the				
International Searching Auth Date (day/month/year)	<i>iority):</i> Numt	oer Cour	ntry (or regional Office)					
30 January 2003		374.1	EP					
Box No. VIII DECLARA	TIONS							
	are contained in Boxes Nos. ate in the right column the num			Number of declarations				
Box No. VIII (i)	Declaration as to the identif	ty of the inventor		:				
Box No. VIII (ii)	Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent :							
Box No. VIII (iii)	Declaration as to the appl date, to claim the priority			· :				
Box No. VIII (iv)	Declaration of inventorshi United States of America)		of the designation of the	;				
Box No. VIII (v)	Box No. VIII (v) Declaration as to non-prejudicial disclosures or exceptions to lack of novelty :							

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Sheet	NΛ	U

Box No. IX CHECK LIST; LANGUAGE OF FILING							
This international application contains:  (a) in paper form, the following number of sheets:  This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):  Number of item (s) (mark the applicable check-boxes below and indicate in right column the number of each item):							
request (including	1.  fee calculation sheet	:					
decimation sheets)	2.  original separate power of attorney	:					
description (excluding sequence listings and/or	3. original general power of attorney	:					
tables related thereto) : 27	4. X copy of general power of attorney; reference number, if any: 46488	. 1					
claims : 4	5.  statement explaining lack of signature						
abstract : 1	6. priority document(s) identified in Box No. VI as	•					
drawings : 24	item(s):	:					
Sub-total number of sheets: 62 sequence listings:	7. Translation of international application into (language):	:					
tables related thereto :  (for both, actual number of	8. separate indications concerning deposited microorganism or other biological material	:					
sheets if filed in paper form, whether or not also filed in	9. sequence listings in computer readable form (indicate type and number of carriers)	•					
computer readable form; see (c) below) ——————	(i) copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application	١.					
Total number of sheets : 62	(ii) (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the	, .					
(b) only in computer readable form (Section 801(a)(i))	purposes of international search under Rule 13ter	:					
(i) sequence listings	(iii) together with relevant statement as to the identity of the copy o copies with the sequence listings mentioned in left column	r :					
(ii) ☐ tables related thereto (c) ☐ also in computer readable form (Section 801(a)(ii))	10.  tables in computer readable form related to sequence listings (indicate type and number of carriers)						
(i) sequence listings (ii) tables related thereto	<ul> <li>(i)          Copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the international application)</li> </ul>						
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are	(ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the	•					
contained the	purposes of international search under Section 802(b-quater)	:					
tables related thereto:	(iii) together with relevant statement as to the identity of the copy o copies with the tables mentioned in left column	:					
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	(additional copies to be indicated under 11. 🛮 other (specify): EP Search Report : 1						
Figure of the drawings which should accompany the abstract:	Language of filing of the international application: ENGLISH						
Box No. X SIGNATURE OF APPLICAN Next to each signature, indicate the name of the person signature.	T, AGENT OR COMMON REPRESENTATIVE ming and the capacity in which the person signs (if such capacity is not obvious from reading.	the request).					
	Lillian G. Low						
	William E. Bird	•					
	For receiving Office use only						
Date of actual receipt of the purported international application:	2. Draw	ings:					
mornational approation.	rece	eived:					
<ol> <li>Corrected date of actual receipt due to later timely received papers or drawings complet the purported international application:</li> </ol>							
Date of timely receipt of the required corrections under PCT Article 11(2):	not	received:					
5. International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid						
	For International Bureau use only						
Date of receipt of the record copy by the International Bureau:							
<u></u>							